

What is claimed is:

1. An audio and/or video data recording and reproducing apparatus having:

5 a receiving means for receiving a data stream in which a plurality of audio data and video data or one of the same (audio and/or video data) are multiplexed in a predetermined order;

10 a demultiplexing means for demultiplexing each of said audio and/or video data from the received said data stream;

a plurality of recording means for recording each of the demultiplexed said plurality of audio and/or video data so that random access is possible;

15 a reproducing means for reproducing said plurality of audio and/or video data respectively recorded in said plurality of recording means; and

a multiplexing means for multiplexing the reproduced said plurality of audio and/or video data in said predetermined order and generating said data stream.

20 2. An audio and/or video data recording and reproducing apparatus according to claim 1, wherein

25 each of said plurality of recording means adopts a mirror configuration having a plurality of recording apparatuses for recording the same audio and/or video data.

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3. An audio and/or video data recording and reproducing apparatus according to claim 1, wherein each of said plurality of recording means adopts an array configuration in which a plurality of recording apparatuses are connected in parallel.

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4. An audio and/or video data recording and reproducing apparatus according to claim 1, wherein: control data is further multiplexed on said data stream;

10 said demultiplexing means further demultiplexes said control data multiplexed on said data stream; and provision is further made of a recording and reproduction control means for controlling a recording operation of said recording means and reproduction operation of said reproducing means based on the demultiplexed said control data.

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5. An audio and/or video data recording and reproducing apparatus according to claim 4, wherein at least one of said plurality of recording means and said plurality of reproducing means perform a recording operation and reproduction operation in synchronization with a synchronization signal of said data stream.

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6. An audio and/or video data recording and reproducing apparatus according to claim 5, wherein

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5       said plurality of audio and/or video data recording and reproducing apparatuses are connected in parallel, and said data stream is input and output among these plurality of audio and/or video data recording and reproducing apparatuses.

7.   An audio and/or video data recording and reproduction method comprising steps of:

10       receiving a data stream in which a plurality of audio data and video data or one of the same (audio and/or video data) are multiplexed in a predetermined order;

      demultiplexing each of said audio and/or video data from the received said data stream;

15       recording each of the demultiplexed said plurality of audio and/or video data so that random access is possible;

      reproducing said plurality of audio and/or video data respectively recorded in said plurality of recording means; and

20       multiplexing the reproduced said plurality of audio and/or video data in said predetermined order and generating said data stream.

8.   An audio recording and reproduction method according to claim 7, wherein

25       each of the demultiplexed said plurality of

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audio and/or video data is recorded on a plurality of recording media to perform backup for them.

9. An audio recording and reproduction method according to claim 8, wherein

5 each of the demultiplexed said plurality of audio and/or video data is recorded on a plurality of recording media in parallel for every part.

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